

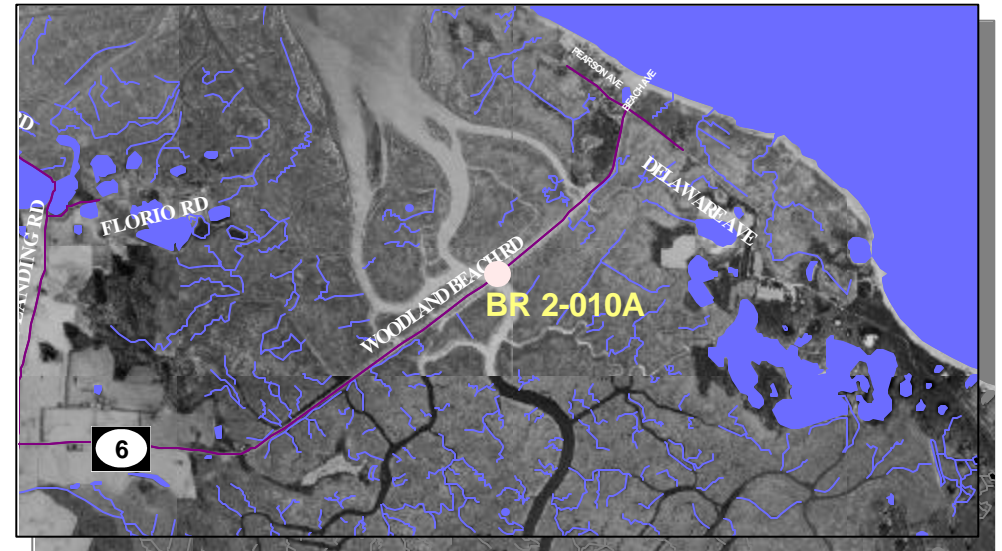
# ***ROAD SYSTEM***

# ***BRIDGES***

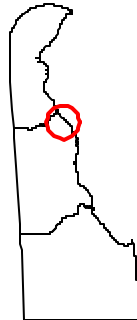
**BR 2-010A ON SR 6 OVER DUCK CREEK, WOODLAND BEACH**

**PROJECT SCOPE/DESCRIPTION:** Bridge 2010A provides the only access to Woodland Beach. Traffic will be maintained during the construction. Rehabilitation work will include replacement of the wearing surface; repair of the existing prestressed beam superstructure by epoxy injection; repair of the substructure through concrete patching, epoxy injection, and member reconstruction; repair of the piles by jacketing; minor approach work; and safety improvements.

**PROJECT JUSTIFICATION:** The bridge is in need of repair to maintain and extend the life of this single access to this local town and is currently ranked 107<sup>th</sup> out of 1,399 on the department's bridge deficiency list (via the bridge management program).



<b>County:</b>	Kent
<b>Municipality:</b>	
<b>Funding Program:</b>	Road System – Bridges
<b>Functional Category:</b>	Preservation
<b>Representative District:</b>	9
<b>Senatorial District:</b>	14



***BR 2-010A ON SR 6 OVER DUCK CREEK, WOODLAND BEACH (CONTINUED)***

***Bridge 2-010A***



**BR 2-010A ON SR 6 OVER DUCK CREEK, WOODLAND BEACH (CONTINUED)****PROJECT FUNDING INFORMATION**

Project	Funding Type	Original Estimate	Current Estimate	Authorization	Committed as of 06/30/03	Expended as of 06/30/03	Committed Unexpended as of 06/30/03	Authorization Available
BR 2-010A on SR 6 Over Duck Creek, Woodland Beach		\$ 917.0						
Prior Years	State			\$ 20.4	\$ 20.4	\$ 14.0	\$ 6.4	\$ 0.0
	Federal			\$ 81.6	\$ 80.9	\$ 56.2	\$ 24.7	\$ 0.7
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2003	State		\$ 917.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Federal			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.7
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2004 Authorized	State			\$ 163.0				\$ 163.0
	Federal			\$ 652.0				\$ 652.7
	Other			\$ 0.0				\$ 0.0
FY 2005 Projected	State			\$ 0.0				\$ 163.0
	Federal			\$ 0.0				\$ 652.7
	Other			\$ 0.0				\$ 0.0
FY 2006 Projected	State			\$ 0.0				\$ 163.0
	Federal			\$ 0.0				\$ 652.7
	Other			\$ 0.0				\$ 0.0
FY 2007-2009 Projected	State			\$ 0.0				\$ 163.0
	Federal			\$ 0.0				\$ 652.7
	Other			\$ 0.0				\$ 0.0
Total Projected	State			\$ 183.4	\$ 20.4			\$ 163.0
	Federal			\$ 733.6	\$ 80.9			\$ 652.7
	Other			\$ 0.0	\$ 0.0			\$ 0.0
Total All Funds		\$ 917.0	\$ 917.0	\$ 917.0	\$ 101.3	\$ 70.2	\$ 31.1	\$ 815.7

**BR 2-010A ON SR 6 OVER DUCK CREEK, WOODLAND BEACH (CONTINUED)****PROJECT TIMELINE INFORMATION**

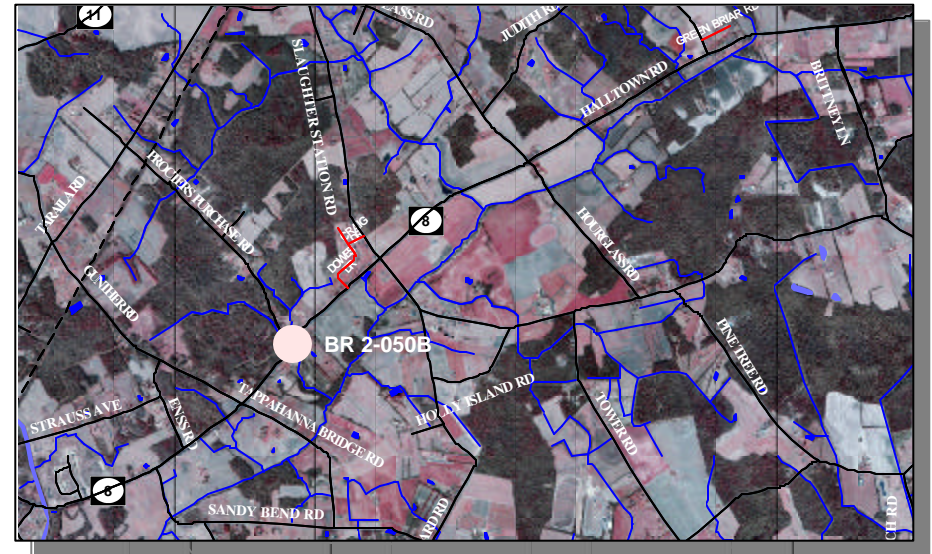
Project #	Description	Phase	Funding Schedule	Current Estimate	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 -2009
22-075-02	<b>BR 2-010A on SR 6 Over Duck Creek, Woodland Beach</b>	PE	80% FHWA	\$ 102.0	\$ 102.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
		RW	100% ST	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		C	80% FHWA	815.0	0.0	0.0	815.0	0.0	0.0	0.0
	Total All Funds			\$ 917.0	\$ 102.0	\$ 0.0	\$ 815.0	\$ 0.0	\$ 0.0	\$ 0.0

***BR 2-050B ON SR 8 OVER TAPPAHANNA DITCH***

**PROJECT SCOPE/DESCRIPTION:** The proposed work for Bridge 2-050B will consist of replacing the existing concrete structure with a precast concrete box culvert and wingwalls. Riprap will be placed at the inlet and outlet for scour protect. Steel beam guardrail will also be placed.

**PROJECT JUSTIFICATION:** The existing structure is a concrete box culvert in poor condition. Both the box culvert and the wingwalls have several areas of delaminations and spalling. The bridge is currently ranked 137<sup>th</sup> on the bridge deficiency list (via the bridge management program).

<b>County:</b>	Kent
<b>Municipality:</b>	
<b>Funding Program:</b>	Road System – Bridges
<b>Functional Category:</b>	Preservation
<b>Representative District:</b>	29
<b>Senatorial District:</b>	15





***BR 2-050B ON SR 8 OVER TAPPAHANNA DITCH (CONTINUED)***

***Bridge 2-050B on SR 8***



***Underside of Bridge 2-050B***



**BR 2-050B ON SR 8 OVER TAPPAHANNA DITCH (CONTINUED)****PROJECT FUNDING INFORMATION**

Project	Funding Type	Original Estimate	Current Estimate	Authorization	Committed as of 06/30/03	Expended as of 06/30/03	Committed Unexpended as of 06/30/03	Authorization Available
BR 2-050B on SR 8 Over Tappahanna Ditch		\$ 635.0						
Prior Years	State			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Federal			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2003	State		\$ 635.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Federal			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2004 Authorized	State			\$ 83.0				\$ 83.0
	Federal			\$ 0.0				\$ 0.0
	Other			\$ 0.0				\$ 0.0
FY 2005 Projected	State			\$ 110.4				\$ 193.4
	Federal			\$ 441.6				\$ 441.6
	Other			\$ 0.0				\$ 0.0
FY 2006 Projected	State			\$ 0.0				\$ 193.4
	Federal			\$ 0.0				\$ 441.6
	Other			\$ 0.0				\$ 0.0
FY 2007-2009 Projected	State			\$ 0.0				\$ 193.4
	Federal			\$ 0.0				\$ 441.6
	Other			\$ 0.0				\$ 0.0
Total Projected	State			\$ 193.4	\$ 0.0			\$ 193.4
	Federal			\$ 441.6	\$ 0.0			\$ 441.6
	Other			\$ 0.0	\$ 0.0			\$ 0.0
Total All Funds		\$ 635.0	\$ 635.0	\$ 635.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 635.0



**BR 2-050B ON SR 8 OVER TAPPAHANNA DITCH (CONTINUED)****PROJECT TIMELINE INFORMATION**

Project #	Description	Phase	Funding Schedule	Current Estimate	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 -2009
	<b>BR 2-050B on SR 8 Over Tappahanna Ditch</b>	PE	100% ST	\$ 83.0	\$ 0.0	\$ 0.0	\$ 83.0	\$ 0.0	\$ 0.0	\$ 0.0
		RW	80% FHWA	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		C	80% FHWA	552.0	0.0	0.0	0.0	552.0	0.0	0.0
	Total All Funds			\$ 635.0	\$ 0.0	\$ 0.0	\$ 83.0	\$ 552.0	\$ 0.0	\$ 0.0

**BR 2-113B AND BR 2-113C ON CATTAIL BRANCH ROAD**

**PROJECT SCOPE/DESCRIPTION:** The proposed work for each bridge will consist of replacing each existing structure with a precast concrete rigid frame. Approaches for both bridges will be reconstructed with steel beam guardrail added. Riprap will be placed at the openings of each structure to provide protection from the effects of scour.

**PROJECT JUSTIFICATION:** The existing bridges are corrugated steel pipes in poor condition. The corrosion at the waterline present in each structure will only worsen and needs to be fixed. These bridges currently rank 75<sup>th</sup> and 77<sup>th</sup> on the bridge deficiency list (via the bridge management program).

<b>County:</b>	Kent
<b>Municipality:</b>	
<b>Funding Program:</b>	Road System – Bridges
<b>Functional Category:</b>	Preservation
<b>Representative District:</b>	30
<b>Senatorial District:</b>	16



***BR 2-113B AND BR 2-113C ON CATTAIL BRANCH ROAD (CONTINUED)***

***Bridge 2-113B***



***Underside of Bridge 2-113B***



***Bridge 2-113C***



***Underside of Bridge 2-113C***



**BR 2-113B AND BR 2-113C ON CATTAIL BRANCH ROAD (CONTINUED)****PROJECT FUNDING INFORMATION**

Project	Funding Type	Original Estimate	Current Estimate	Authorization	Committed as of 06/30/03	Expended as of 06/30/03	Committed Unexpended as of 06/30/03	Authorization Available
BR 2-113B and BR 2-113C on Cattail Branch Road		\$ 1,040.0						
Prior Years	State			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Federal			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2003	State		\$ 1,040.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Federal			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2004 Authorized	State			\$ 26.2				\$ 26.2
	Federal			\$ 104.8				\$ 104.8
	Other			\$ 0.0				\$ 0.0
FY 2005 Projected	State			\$ 181.8				\$ 208.0
	Federal			\$ 727.2				\$ 832.0
	Other			\$ 0.0				\$ 0.0
FY 2006 Projected	State			\$ 0.0				\$ 208.0
	Federal			\$ 0.0				\$ 832.0
	Other			\$ 0.0				\$ 0.0
FY 2007-2009 Projected	State			\$ 0.0				\$ 208.0
	Federal			\$ 0.0				\$ 832.0
	Other			\$ 0.0				\$ 0.0
Total Projected	State			\$ 208.0	\$ 0.0			\$ 208.0
	Federal			\$ 832.0	\$ 0.0			\$ 832.0
	Other			\$ 0.0	\$ 0.0			\$ 0.0
Total All Funds		\$ 1,040.0	\$ 1,040.0	\$ 1,040.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 1,040.0

**BR 2-113B AND BR 2-113C ON CATTAIL BRANCH ROAD (CONTINUED)****PROJECT TIMELINE INFORMATION**

Project #	Description	Phase	Funding Schedule	Current Estimate	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 -2009
23-072-02	<b>BR 2-113B and BR 2-113C on Cattail Branch Road</b>	PE	80% FHWA	\$ 131.0	\$ 0.0	\$ 0.0	\$ 131.0	\$ 0.0	\$ 0.0	\$ 0.0
		RW	80% FHWA	24.0	0.0	0.0	0.0	24.0	0.0	0.0
		C	80% FHWA	885.0	0.0	0.0	0.0	885.0	0.0	0.0
	Total All Funds			\$ 1,040.0	\$ 0.0	\$ 0.0	\$ 131.0	\$ 909.0	\$ 0.0	\$ 0.0



***BR 2-118A ON COON DEN ROAD OVER NANTICOKE RIVER***

**PROJECT SCOPE/DESCRIPTION:** The proposed work for Bridge 2-118A consists of replacing the four existing corrugated steel pipe culverts with a prestressed concrete beam bridge with a composite concrete deck on stub abutments. The approach roadway will be reconstructed and steel beam guardrail will be placed.

**PROJECT JUSTIFICATION:** The existing structure consists of four corrugated unpainted steel pipe culverts in poor condition due to corrosion at the waterline. The lack of guardrail also presents a safety hazard to motorists. The bridge is currently ranked 74<sup>th</sup> on the bridge deficiency list (via the bridge management program).

<b>County:</b>	Kent
<b>Municipality:</b>	
<b>Funding Program:</b>	Road System – Bridges
<b>Functional Category:</b>	Preservation
<b>Representative District:</b>	30, 35
<b>Senatorial District:</b>	16, 19



***BR 2-118A ON COON DEN ROAD OVER NANTICOKE RIVER (CONTINUED)***

***Bridge 2-118A on Coon Den Road***



***Inside Bridge 2-118A***



**BR 2-118A ON COON DEN ROAD OVER NANTICOKE RIVER (CONTINUED)****PROJECT FUNDING INFORMATION**

Project	Funding Type	Original Estimate	Current Estimate	Authorization	Committed as of 06/30/03	Expended as of 06/30/03	Committed Unexpended as of 06/30/03	Authorization Available
BR 2-118A on Coon Den Road Over Nanticoke River		\$ 476.0						
Prior Years	State			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Federal			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2003	State		\$ 476.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Federal			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2004 Authorized	State			\$ 12.4				\$ 12.4
	Federal			\$ 49.6				\$ 49.6
	Other			\$ 0.0				\$ 0.0
FY 2005 Projected	State			\$ 82.8				\$ 95.2
	Federal			\$ 331.2				\$ 380.8
	Other			\$ 0.0				\$ 0.0
FY 2006 Projected	State			\$ 0.0				\$ 95.2
	Federal			\$ 0.0				\$ 380.8
	Other			\$ 0.0				\$ 0.0
FY 2007-2009 Projected	State			\$ 0.0				\$ 95.2
	Federal			\$ 0.0				\$ 380.8
	Other			\$ 0.0				\$ 0.0
Total Projected	State			\$ 95.2	\$ 0.0			\$ 95.2
	Federal			\$ 380.8	\$ 0.0			\$ 380.8
	Other			\$ 0.0	\$ 0.0			\$ 0.0
Total All Funds		\$ 476.0	\$ 476.0	\$ 476.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 476.0

**BR 2-118A ON COON DEN ROAD OVER NANTICOKE RIVER (CONTINUED)****PROJECT TIMELINE INFORMATION**

Project #	Description	Phase	Funding Schedule	Current Estimate	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 -2009
	<b>BR 2-118A on Coon Den Road Over Nanticoke River</b>	PE	80% FHWA	\$ 62.0	\$ 0.0	\$ 0.0	\$ 62.0	\$ 0.0	\$ 0.0	\$ 0.0
		RW	80% FHWA	6.0	0.0	0.0	0.0	6.0	0.0	0.0
		C	80% FHWA	408.0	0.0	0.0	0.0	408.0	0.0	0.0
	Total All Funds			\$ 476.0	\$ 0.0	\$ 0.0	\$ 62.0	\$ 414.0	\$ 0.0	\$ 0.0

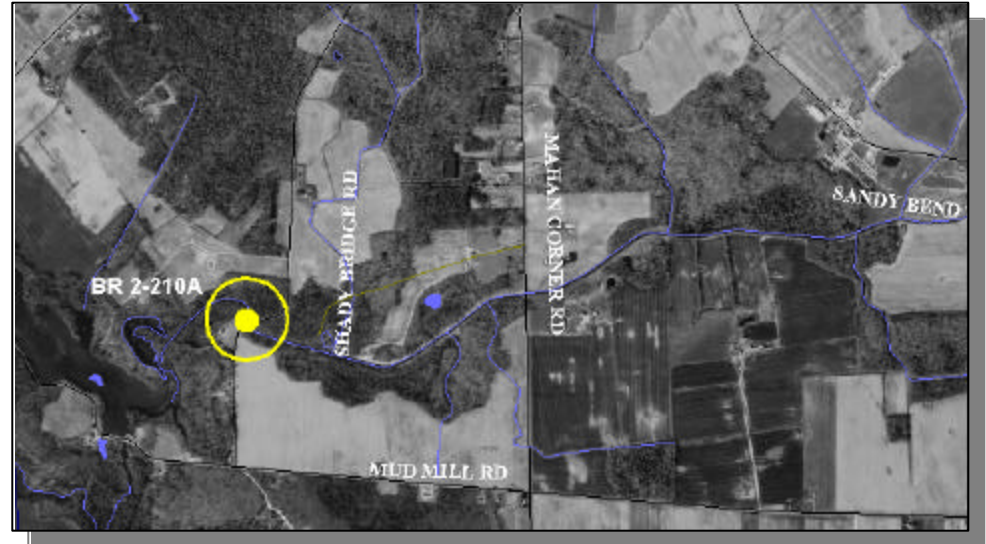
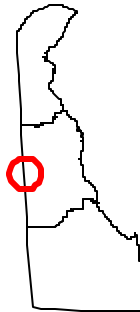


***BR 2-210A ON SHADY BRIDGE ROAD OVER SHADES BRANCH, SOUTH OF MARYDEL***

**PROJECT SCOPE/DESCRIPTION:** This project will involve the replacement of the existing steel girder/timber deck bridge on Shady Bridge Road (K210) with a prestressed concrete bridge with pile-supported abutments, protected by rip-rap. Work may include re-alignment of the approaches. Each approach will have guardrail placed in front of the abutments to a similar extent as exists now.

**PROJECT JUSTIFICATION:** The bridge capacity is substandard and it is functionally obsolete. This bridge is ranked 61<sup>st</sup> on the department's bridge deficiency list (via the bridge management program).

<b>County:</b>	Kent
<b>Municipality:</b>	
<b>Funding Program:</b>	Road System – Bridges
<b>Functional Category:</b>	Preservation
<b>Representative District:</b>	29
<b>Senatorial District:</b>	15



***Bridge 2-210A on Shady Bridge Road***





**BR 2-210A ON SHADY BRIDGE ROAD OVER SHADES BRANCH, SOUTH OF MARYDEL (CONTINUED)****PROJECT FUNDING INFORMATION**

Project	Funding Type	Original Estimate	Current Estimate	Authorization	Committed as of 06/30/03	Expended as of 06/30/03	Committed Unexpended as of 06/30/03	Authorization Available
BR 2-210A on Shady Bridge Road Over Shades Branch, South of Marydel		\$ 807.0						
Prior Years	State			\$ 112.0	\$ 112.0	\$ 111.9	\$ 0.0	\$ 0.1
	Federal			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2003	State		\$ 807.0	\$ 139.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 139.1
	Federal			\$ 556.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 556.0
	Other			\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
FY 2004 Authorized	State			\$ 0.0				\$ 139.1
	Federal			\$ 0.0				\$ 556.0
	Other			\$ 0.0				\$ 0.0
FY 2005 Projected	State			\$ 0.0				\$ 139.1
	Federal			\$ 0.0				\$ 556.0
	Other			\$ 0.0				\$ 0.0
FY 2006 Projected	State			\$ 0.0				\$ 139.1
	Federal			\$ 0.0				\$ 556.0
	Other			\$ 0.0				\$ 0.0
FY 2007-2009 Projected	State			\$ 0.0				\$ 139.1
	Federal			\$ 0.0				\$ 556.0
	Other			\$ 0.0				\$ 0.0
Total Projected	State			\$ 251.0	\$ 112.0			\$ 139.1
	Federal			\$ 556.0	\$ 0.0			\$ 556.0
	Other			\$ 0.0	\$ 0.0			\$ 0.0
Total All Funds		\$ 807.0	\$ 807.0	\$ 807.0	\$ 112.0	\$ 111.9	\$ 0.0	\$ 695.0

**BR 2-210A ON SHADY BRIDGE ROAD OVER SHADES BRANCH, SOUTH OF MARYDEL (CONTINUED)****PROJECT TIMELINE INFORMATION**

Project #	Description	Phase	Funding Schedule	Current Estimate	Prior Years	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007 -2009
21-072-01	<b>BR 2-210A on Shady Bridge Road Over Shades Branch</b>	PE	100% ST	\$ 104.0	\$ 104.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0
		RW	100% ST	8.0	8.0	0.0	0.0	0.0	0.0	0.0
		C	80% FHWA	695.0	0.0	695.0	0.0	0.0	0.0	0.0
	Total All Funds			\$ 807.0	\$ 112.0	\$ 695.0	\$ 0.0	\$ 0.0	\$ 0.0	\$ 0.0